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Z/038/60/000/011/003/006

A201/A026

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The Sensitive Gamma-Background and Surface Beta-Contamination Detector

The tube assembly is connected with the recording unit by a 60 cm long metal tube fitted with a sliding ring and a fixing screw by which the entire assembly is attached to the panoramic head of a camera tripod (Fig. 1). To eliminate the "glasshouse effect" inside the box, 5 holes, 20 mm in diameter, have been bored into the longer side walls and the entire box was covered by glossy white paper. The NNC-223-T meter is fitted with a microammeter with 3 ranges of 0.1, 1 and 10, which in their entire scale-range correspond to dose-rate intensities of 0.5, 5 and 50 mr/h, respectively. The instrument is powered by five MR 19 mercury cells with a total voltage of 6.5 v and a capacity of 3 ampere/hour, capable of operating the instrument for 100 hours. The time constant of the instrument has been increased by the addition of a 5,000  $\mu$ F capacitor to decrease the oscillations of the needle. The entire assembly weighs 4.82 kg, of which the tripod weight is 0.9 kg. Numerous measurements have shown that the instrument is capable of furnishing reproducible results. The calibration of the detector relative to the natural background has been made at the sports field adjoining the swimming pool of the Na Bulovoe Hospital, using 2 Ra-226 standards made available by the Dosimetrické oddělení (Dosimetric Section). One was the No B-5 standard with an approximate Ra-226 content of 20 mg and a dose intensity of 153 r/cm. hour; the other was the

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# The Sensitive Gamma-Background and Surface Beta-Contamination Detector

No. 10 standard with an approximate Ra-226 content of 1 mg and a dose intensity of 7.54 r/cm · hour. The first standard was placed at a distance of 25 m from the vertical plane of the GM tubes, the other at a distance of 6 m. Due to the directional effect of the GM tubes, the calibration was made from 3 directions: a) with the beam perpendicular to both the plane and the axis of the tubes; b) with the beam forming a 45° angle with the plane and axis of the tubes; c) with the beam forming a 0° angle with the plane and the axis of the tubes. The relation of the values obtained was : a : b : c = 100 : 85.5 : 68.7. The calculated dose intensity of the standard was multiplied by the average of the 3 values (0.857). It was found that for these conditions the value of 0.1 mr/h indicated by the ammeter in the most sensitive (0.1) range corresponded to an actual dose intensity of 7.18 r/h. This meant that the instrument in this arrangement had a sensitivity 14 times greater than in its original arrangement. The calibration was repeated several weeks later under similar conditions yielding exactly the same results. In field measurements the value indicated by the instrument consists of 3 components: a) the internal background of the instrument given by the activity of the tubes, which is relatively low since iron walls are used; b) the unfiltered cosmic radiation dose; c) the gamma radiation dose of the soil. Measurements made at the same place where

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the calibration had been performed yielded on several days always the same value of  $12.58 \mu\text{r/h}$  with a deviation of  $\pm 3\%$ . To eliminate the radiation component of the soil c), measurements were made on the swimming pool of the hospital on April 8, 1960. The outside dimensions of the swimming pool are  $25 \times 15 \text{ m}$ , inside dimensions  $17 \times 7 \text{ m}$ , and the depth is  $2.9 \text{ m}$ . The swimming pool was refilled for the last time on August 23, 1959, with water from the Vltava River so that any additional radon that might originally have been present had decayed already. Radon formed by the decay of Ra-226 dissolved in the Vltava River water is negligible since this water contains less than  $10^{-13} \text{ g Ra-226/liter}$ . The detector was placed on a rubber raft,  $3.20 \text{ m}$  long,  $1.25 \text{ m}$  wide. The probe with the tubes was extended over the raft board about  $30 \text{ cm}$  above and parallel to the water level. The lowest value was measured at the center of the pool, viz.  $5.74 \text{ r/h}$ . This value is then the sum of the a)-internal background of the instrument- and b) -cosmic radiation - components. For the altitude of  $260 \text{ m}$  above mean sea level, at which the measurements were made and for the geomagnetic latitude of Prague, the unfiltered cosmic radiation produces  $2.2 \text{ ion pairs/cm}^2 \cdot \text{sec}$ , corresponding to a dose intensity of  $3.46 \mu\text{r/h}$ . This leaves  $2.25 \mu\text{r/h}$  for the internal background of the instrument. Consequently, for

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this specific place the natural gamma radiation background (gamma radiation of the soil + cosmic radiation) is  $10.3 \mu\text{r/h}$ , or  $90.0 \text{ mr/year}$ . This figure is in good agreement with values measured abroad in similar environments. The instrument was also tested for its suitability as surface beta-contamination meter.  $\text{Ti-204}$  with a maximum energy of  $0.76 \text{ Mev}$  was used as standard. An accurately measured standard solution of this radioisotope was adequately diluted. Filter paper with an area of  $180 \text{ cm}^2$  was soaked in this solution, acquiring a total activity of  $1.28 \cdot 10^{-8} \text{ c}$ , and a surface activity of  $7.1 \cdot 10^{-11} \text{ c/cm}^2$ . The paper was placed on an "Umapiex" plate of the same dimension as the lid of the instrument box and covered with a cellophane foil with a surface density of  $4.1 \text{ mg/cm}^2$ . The lid of the instrument was then replaced by the plate with the paper facing the tubes. Measurements have shown that the instrument is capable of detecting even lower activities, viz. about  $4 \cdot 10^{-11} \text{ c/cm}^2$ . It is therefore well suitable for measurements of personnel surface beta-contamination. Since the instability of the mercury cells is practically the only cause affecting the proper operation of the instrument, a portable standard for checking on the operation of the detector has been prepared. The standard uses barium-radium carbonate with a total activity of  $3 \text{ to } 5 \cdot 10^{-7} \text{ c}$   $\text{Ra-226}$  filled in a sealed glass capillary,  $42 \text{ mm}$  long,  $3 \text{ mm}$  in diameter. The capillary is en-

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bedded in an "Umplex" prism, 50 x 8 x 8 mm, and plugged with an "Umplex" stopper. Since the standard emits only 4.5 mr/cm · hour, it can be handled safely without special precaution. For checkings the standard is placed in the center of the instrument-box lid and the value is read from the less sensitive (1) range. In this arrangement the microammeter needle usually deflects over one third to one half of the scale. A photograph of the standard is shown in Figure 3. There are 3 photographs and 9 references: 1 Czech, 1 German and 7 English.

**ASSOCIATION:** Fakulta technické a jaderné fyziky ČVUT (Department of Technical and Nuclear Physics, ČVUT) (F. Běhounek); Dosimetrické oddělení ÚJV ČSAV (Dosimetric Section, ÚJV, ČSAV) (J. Kočí)

Card 6/8

KOCI, Jiri

Personal acoustic dosimeter of Gamma, X and W rays. Jaderna energie 6 no.9:312 8 '60.

1. Dosimetricke oddeleni, Ustav jaderneho vyskumu, Ceskoslovenska akademie ved, Praha.

**BEHOUNEK, Frantisek; KOCI, Jiri**

A sensitive detector of the gamma background and the beta surface contamination. Jaderna energie 6 no.11:379-382 N '60.

1. Fakulta technicka a jaderne fyziky, Ceske vysoke uceni technicka (for Behounek). 2. Dosimetricke oddeleni, Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved (for Koci).

RYBAK, M.; PETAKOVA, M.; KOCI, J.

On the inhibitive effect of some substances on the properdin system-comparison with their anticomplement action. Cesk. epidem. 11 no.1:58-61 Ja '62.

1. Ustav hematologie a krevni transfuze v Praze.  
(PROPERDIN pharmacol.) (COMPLEMENT pharmacol.)



KUBEC, Vladimir; ZAMČNIK, Jiri; PLACIEROVA, Anna; KOCI, Jiri

Dosimetric information on the radiation dosage obtained in the inner pelvis during radiation by different techniques. Cesk. rentgenol. 16 no.1:18-24, P '62.

1. Onkologicky ustav v Praze 8, reditel MUDr. Frantisek Vadura.  
(RADIOESTRY) (PELVIS radiation effects)

SCHREIBER, V.; KOCI, J.; ECKERTOVA, A.; FRANC, Z.; KMENTOVA, V.

The hypothalamic factor activating adeno-hypophyseal acid phosphatases and tsh release in vitro: further purification by high-voltage electrophoresis. Physiol Bohemoslov 10 no.5:417-426 '61.

1. Laboratory for Endocrinology and Metabolism, Third Medical Clinic, Faculty of General Medicine, Charles University, Prague; Institute of Haematology and Blood Transfusion, Prague; Institute of Pharmacy and Biochemistry, Prague.

(HYPOTHALAMUS physiol)  
(PHOSPHATASES metab)

(PITUITARY GLAND ANTERIOR metab)  
(THYROTROPIN physiol)

KOCI, J.; RYBAK, M.; MANSFELD, V.

Inhibiting action of antilysine fractions on proteases. Coll Cs  
Chem 27 no.9:2119-2124 S '62.

1. Institut für Haematologie und Bluttransfusion, Prag und  
Forschungsinstitut für Pharmazie und Biochemie, Prag.

2  
SYROVÝ, I; KODÍ, J; PALUSKA, E.

Czechoslovakia

Institute for Hematology and Blood Transfusion —  
Prague — (for all: Syrový now at Institute for  
Physiology, Czechoslovak Academy of Sciences —  
Prague)

Prague, Collection of Czechoslovak Chemical Communi-  
cations, No 11, 1962, pp 2681-2684

"Fractionation of the Protein Material of Modified  
Beef Serum on Deae-cellulose."

KOCI, J.

Platies in radiology. Česk. rentgen. 18 no.4:278-282 J1'64

1. Onkologický ústav v Praze; reditel: MUDr. F.Vadura

SCHREIBER, V.; RYBAK, M.; KOCI, J.; ECKERTOVA, A.; FRANC, Z.; JIRGL, V.  
KMENTOVA, V.; KAPITOLA, J.; SKNESTIK, V.; KRESLOVA, V.

Hypothalamic factor releasing thyrotropin (TRF). Acta Univ.  
Carol. [med.] (Praha) 10: suppl. 17:105-110 '63

1. Laborator pro endokrinologii a metabolismus, fakulty vse-  
obecneho lekarstvi University Karlovy v Praze (reditel: akad-  
mik Josef Charvat); Ustav hematologie a krevni transfuze (reditel:  
prof. MUDr. J. Horejsi) a Vyskumny ustav pro farmacii a bio-  
chemii (reditel: dr. ins. O. Nemecsek).

APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723520016-5"

Czechoslovakia

CZ/0078/65/000/011/0015/0015

INVENTOR: Koci, Miroslav (Engineer); Netusil, Miroslav (Engineer);  
Novak, Vladimir (Engineer; Prague)

ORG: none

TITLE: Computer setup for the evaluation of biological processes. CZ  
Pat. No. PV 5254-62, Class 30a

SOURCE: Vynalezky, no. 11, 1965, 15

TOPIC TAGS: biology, computer, Fourier analysis

ABSTRACT: An Author Certificate has been issued for a device to evalu-  
ate biological processes. It has a converter at the input of the  
tape recorder with an infinite wire loop to register the process ob-  
served. At the output of the tape recorder there is a selective cir-  
cuit to which an analogue counter is attached for the evaluation of the  
Fourier coefficient. [KP]

1/1 CZECHOSLOVAKIA

ORZO, M.; SLADKA, O.; KOCI, St.; Poultry Research Institute,  
Institute of Experimental Biology, Slovak Academy of Sciences

KOCIAN, Jan, ins.

Use of telemeters for detail measurement in technical and economic mapping. Good kart obsor 10 no. 3: 52-5' Hr '64.

1. Institute of Geodesy and Cartography, Bratislava.

KOCIC, Julijana, ins., asistent (Novi Sad, Tehnoloski fakultet)  
VUJICIC, Ivica, dr, docent

Modification of the fractionation process in the nitrogen  
substances of cheese in order to determine nitrogen  
according to micro-Kjeldahl technique. Tehnika Jug 18 no.  
12: Supplement: Prehran ind 17 no. 12: 2315-2318 D '63

1. Tehnoloski fakultet u Novom Sadu (for Kocio).
2. Poljoprivredni fakultet u Novom Sadu (for Vujicic).



GUTVIRTH, J.; CHODERA, J.; KOCI, M.; MYDŁ, V..

Registration of respiratory movements in premature infants by  
induction changes. Cesk. pediat. 17 no.11:280-284 W '62.  
(RESPIRATORY FUNCTION TESTS) (INFANT NEWBORN)

SZUTTOR, Norbert, doc, ins., CSc.; KOCI, Michal, ins.

Some results of the technical and economic analysis of the compressed-air production and distribution at the Dechtarka Section of the Rudne bane mine in Dubrava. Rudy 11 no.12:397-400 D'63.

1. Vysoka skola technicka, Kosice (for Szuttor). 2. Rudne bane, Dubrava (for Koci).

Z/039/62/023/001/007/007  
D291/D303

AUTHOR: Kočí, Miroslav  
TITLE: Instrument for tracing arterial-pulse curves  
PERIODICAL: Slaboproudý obzor, v. 23, no. 1, 1962, 51 - 53

TEXT: The article describes an instrument for tracing arterial-pulse curves (sphygmograph), developed as a supplement to the "Elema" electrocardiograph by the ČSAV, Laborator grafických vyšetřovacích metod (Czechoslovak AS, Laboratory of Graphic Methods of Diagnosis). The instrument features a pneumatic device where differential pressures, picked-up by a sensor and a microgauge, are converted into electrical pulses by a semiconductor circuit employing a detuned bridge for amplitude modulation of the carrier wave which is then demodulated in a detector. The sensor, applied to the skin with slight pressure, is a foam-rubber filled rubber pad which is connected by a small rubber hose to a very sensitive microgauge. The microgauge capacity is incorporated into a balanced bridge cir-

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Z/039/62/023/001/007/007  
D291/D303

Instrument for tracing ...

cuit which is fed from an oscillator. Differential voltages, originating from bridge detuning by the variable microgauge capacity, are amplified and led to the phase-discriminating detector. The fully transistorized instrument is battery-fed, very small, and reliable in operation. There are 9 figures.

ASSOCIATION: ČSAV, Laborator grafických vyšetřovacích metod (Czechoslovak AS, Laboratory of Graphic Methods of Diagnosis).

SUBMITTED: September 19, 1961

Card 2/2

DOSTAL, C.; NOVAK, V.; KOCI, M.; HETUSIL, M.

Evaluation of the pulse curve with the use of Fourier's analysis. Cas. lek. cesk. 103 no.19:526-530 8 My'64

1. Vyskumny ustav chorob revmatickych v Praze (reditel: prof. F. Lencok, DrSc) a Laborator grafickych vysetrovacich metod CSAV v Praze (reditel: akademik V. Laufberger).

FERBAS, Jiri; KOCI, Mojmir

Lubricant grease viscosity. Ropa a uhlie 5 no.10;298-304 0 '62.

1. Vyakumne a skusebni stredisko 150, Praha.

KOCI, O. (& KOPCEK, J.)

"Simplified Design of Distance Rings in Transformer Windings."

SO: Elektrotechnik, Czechoslovakia, Vol. 9, No. 1, Jan 1954 (~~1954, No. 1, Jan 1954~~),  
~~1954, No. 1, Jan 1954~~

5001, 3-

ABSTRACT : [illegible]

ABST. JOUR. : RZBiol., No. 4, 1959, No. 1007

AUTHOR : [illegible]

INST. :

TITLE :

Abstract of the results of the investigation of the effect of the feeding of a diet containing 0.4-0.5% of the extract of the [illegible] on the health of the [illegible] animals. The results show that the feeding of a diet containing 0.4-0.5% of the extract of the [illegible] on the health of the [illegible] animals is beneficial.

ABSTRACT : The results of the investigation of the effect of the feeding of a diet containing 0.4-0.5% of the extract of the [illegible] on the health of the [illegible] animals. The results show that the feeding of a diet containing 0.4-0.5% of the extract of the [illegible] on the health of the [illegible] animals is beneficial.

CARD:

1/2

\*of Patenting.

44

CATEGORY : F R Animals, Cattle.

7-3

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ABST. JOUR. : RZBiol., No. 1959, No.

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : doses of 0.25 kg and regarded as a supplementary vitamin feeding. -- T. S. Rozdakov

CARD:

2/2

KOCI, 2. - Vol. 3, no. 2, Feb. 1955. STROJIRENSKA VIROBA

Better care in servicing and maintenance of machine tools. p. 79.

80: Monthly list of East European Accessions, (MEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.



KOCIALKOWSKI, Kazimierz; GAWRONSKI, Mieczyslaw

On the amyloid goiter. Pol. tyg. lek. 20 no.21:770-772  
24 My '65.

1. Z II Kliniki Chirurgicznej AM w Poznaniu (Kierownik: prof.  
dr. Roman Drewnowski) i z Zakładu Anatomii Patologicznej AM w Poznaniu  
(Kierownik: prof. dr. Janusz Groniowski).

KOCIALKOWSKI, Kasimierz

---

Echinococcus of the pericardium. Pol. przegl. chir. 37 no.2:  
175-177 P '65

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu  
(Kierownik: prof. dr. R. Drews).

KOCIAŁKOWSKI, Kazimierz

Tuberculosis of the stomach according to observations at the 2d  
Surgical Clinic of the Academy of Medicine in Poznan. Polski tygod.  
lek. 16 no.29:1122-1126 17 J1 '61.

1. Z II Kliniki Chirurgicznej A.M. w Poznaniu; kierownik: prof. dr  
Roman Drews.

(TUBERCULOSIS GASTROINTESTINAL)

KOCIALKOWSKI, Kasimierz

Multifocal form of echinococcosis of the liver and adjacent organs. Pol. tyg. lek. 19 no. 90:1940-1942 14 D '64.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr. Roman Drowski).

KOCIALKOWSKI, Kasimierz

Pericardial cysts. Polaki przegl. chir. 33 no.10:1123-1130 '61.

1. z II Kliniki Chirurgicznej AM w Poznaniu Kierownik: prof. dr  
R.Drewno.

(PERICARDIUM dis)  
(CYSTS)

KOCIALKOWSKI, Kasimierz

Surgical treatment of cysts of the pancreas. Polski przegl. chir.  
33 no.7/ 9:990-991 '61.

1. Z II Chirurgicznej AM w Poznaniu Kierownik: prof. dr R. Drewn.  
(PANCREAS dis) (CYSTS surg)

KOCIALKOWSKI, Zdzislaw

The Co, Mn, Mo, Cu, Zn and Ni content in various sample extracts of certain types of soil of the Poznan Province. Prace nauk roln i leśn 14 no. 4:467-498 '63 [publ. '64]

Spectrographic determination of trace amounts of elements in soil sample extracts. Ibid.:499-526

TUCHOLKA, Zbyszek; CZEKALSKI, Alfred; KOCIALKOWSKI, Zdzisław

Preliminary studies on the content of certain microelements  
in the soils of Bydgoszcz Voivodeship. Prace nauk roln.  
18 no.2:161-166 '64.

1. Department of Agricultural Chemistry, College of Agriculture,  
Poznań.



ANDRZEJEWSKI, Marceli; CZEKALSKI, Alfred; KOCIALKOWSKI, Zdzisław

Influence of organic manuring and liming on the solubility changes of certain microelements. Prace nauk roln i leśn 18 no.2:45-50 '64.

Preliminary studies on the microelement content in mountainous soils. Ibid.:51-58

1. Department of Agricultural Chemistry, College of Agriculture, Poznań.

TUCHOLKA, Zbyszek; BALUK, Antoni; CZEKALEKI, Alfred; KOCIALKOWSKI,  
Zdzislaw

Mineral content in meadow plants of certain regions of the  
Poznan Province. Pt. 2. Prace nauk roln i lesn 18 no.2:149-  
159 '64.

1. Department of Agricultural Chemistry, College of A;ri-  
culture, Poznan.

KOCIALKOWSKI, Kasimierz

Remote results of the surgical treatment of intrathoracic goiter.  
Pol.tyg. lek. 19 no.49:1891-1894 7 D '64

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Poznaniu  
(kierownik: prof. dr. Roman Drzews).

CZECHOSLOVAKIA

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723520016-5"

KOCIAN, Anton and STOLLHANN, Andrej, Oravské múzeum, Oravský zámok, Zilina.  
Oravské múzeum, Zilina.

"The Owl *Strix uralensis macroura* Wolf, 1810, in Northwestern Slovakia."

Bratislava, Biologia, Vol 18, no 7, 1963; pp 533-534.

Abstract: Brief report of 4 captured specimens of this owl which had until now not been known to nest in Northeastern Slovakia. Table gives anatomic measurements of the 4 specimens. Table; 1 German, 3 Czech references.

KOCLAN, I.; VIKYDAL, M.; KLABUSAY, L.; STEPANEK, V.

Intra-articular use of plastic substances in rheumatology. Acta  
chir.orthop.traum.czech. 27 no.5:422-427 O '60.

1. Vnitřní oddělení KUNZ, Kojetín, přednosta MUDr. I.Kocian.  
Interní klinika PU, Olomouc, přednosta prof. MUDr. P.Lokl. Vnitřní  
oddělení KUNZ, Ostrava, přednosta MUDr. J.Cerný. Oddělení centrální.  
rtg KUNZ, Ostrava přednosta MUDr. J.Metelka.  
(ARTHRITIS RHEUMATOID ther)  
(POLYVINYL ther)

KOCIAN, J.

TECHNOLOGY

periodicals: SLOVACI TECHNIKA Vol. 6, no. 9, Sept. 1958

KOCIAN, J. Special arrangement for communication equipment to be used in unfavorable climatic conditions. p. 334.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5  
May 1959, Unclass.

KOCIAN, J (MD)

CZECHOSLOVAKIA

KOCIAN, J., MD.

Internal Medicine Ward of the Hospital (Vnitřní oddelení nemocnice), Prague

Prague, Praktický lékař, No 13-14, 1963, pp 512-514

"Anaphylactic Shock in Intracutaneous Test during First Application of Tetanus Antitoxin."

CHARAMZA, Frantisek, ins.; KARSKY, Georgij, ins.; KASL, Josef, ins.;  
KOCIAN, Jan, ins.; STASTNY, Vaclav, ins.; VLSOVA, Eva, ins.

Problem of automation of geodetic calculations. Geod kart obsor  
10 no.9/10:217-222 O '64

KOCIAN, J.

Impregnating with waxes, compounds, and varnishes. p. 490.

SLABOPROUDY OBZOR. (Ministerstvo vseobecního strojírenství, Ministerstvo, spoju  
a Československá vědecko-technická společnost, sekce elektrotechnika) Praha,  
Czechoslovakia, Vol. 20, No. 7, July 1959.

Monthly List of East European Accessions (EEL) LC, Vol. 8, No. 11,  
November 1959.

Uncl.



KOOIAN, Jan, ins.

Packing telecommunications merchandise to be shipped to tropical regions. Slaboproudy obsor 21 no.10:602-606 0 '60. (EKAI 10:2)

1. TESLA Stranice, narodni podnik  
    (Packing for shipment)      (Tropics)  
    (Electric equipment)      (Telecommunication)

SKACEL, Jaroslav; MAREK, Miloslav; MIKUS, Miloslav; KNEZ, Jaroslav;  
PAUK, Tomas; BARTAS, Frantisek; OREL, Petr; VIBIRAL, Josef;  
BARTH, Vojtech; KNETTING, Petr; FOJT, Bohuslav; DVORAK, Jaroslav;  
NOCIAN, Jan

The 2nd Regional Geological Conference in Opava. Prir cas  
slezaky 23 no.1:133-143 '62.

KOCIAN, Jan, ins.

Experience in the Institute of Geodesy and Cartography in Bratislava with the L&P-30 calculation machine. Good kart obsor 9 no.8:222-223 Ag '63.

1. Ustav geodesie a kartografie, Bratislava.

1 11226-66 EXP(1)/ETI LJP(c) JD

ACC NR: AP6030215

SOURCE CODE: CZ/0039/66/027/003/0168/0173

AUTHOR: Kocian, Jan--Kotsian, Ya. (Engineer)

313

ORG: TESLA Stranice, n.p., J. Haken Plant, Prague (TESLA Stranice, n.p., zavod J. Hakana)

TITLE: Deep impregnation of windings by lacquers with thorough evaporation of the thinner

SOURCE: Slaboproudy obsor, v. 27, no. 3, 1966, 168-173

TOPIC TAGS: metal surface impregnation, metal coating

ABSTRACT: The article classifies impregnating materials according to the way in which they form a solid film and process. It then describes Czechoslovak equipment which facilitates thorough removal of the thinner from the windings. The evaporation tests, the evaporation procedure and the measurement of the temperature distribution within the impregnating vessels are described. Orig. art. has: 5 figures and 1 table. [Based on author's Eng. abst.] [JPRS: 36,644.]

SUB CODE: 11 / SUBM DATE: 26Apr65 / ORIG REF: 002 / OTH REF: 001

Card 1/1 hc

UDC: 621.315.617

L 38321-66

ACC NR/AP6027979

SOURCE CODE: CZ/0024/66/000/004/0072/0077

AUTHOR: Kocian, Jan (Engineer)

49  
B

ORG: Institute of Geodesy and Cartography, Bratislava (Ustav geodesie a kartografie)

TITLE: Experience in the mechanisation and automation of geodetic computations at the Institute of Geodesy and Cartography at Bratislava

SOURCE: Geodeticky a kartograficky obsor, no. 4, 1966, 92-97

TOPIC TAGS: computer program, geodesy, computer technology

ABSTRACT: The article describes the organization of preliminary work and the construction of a computer program for geodetic computations, the organization of collaboration with computer centers, controls and the resulting output. The results are analyzed from the point of view of the desired precision and an economic analysis is made. Orig. art. has: 1 table. [Based on author's Eng. abet.] [JPRS: 36,844]

SUB CODE: 08, 09 / SUBM DATE: none

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UDC: 528.063:528.5

KOCIAN, Josef, i HRAZDRA, Ivo

Trials on the conductometric determination of changes in the permeability of isolated frog skin. *Sor.med.fac. med. Brunensis* 36 no.7:329-337 '63.

1. Katedra farmakologie lékařské fakulty University J.E. Purkyně v Brně (Vedoucí katedry: MUDr. J. Sajner, CSc.), a Katedra lékařské fyziky lékař. fakulty University J.E. Purkyně v Brně (Vedoucí katedry: asst. doc. MUDr. J. Stanek, CSc.)

NEZVAL, Jaroslav; HRAZDIRA, Ivo; KOCIAN, Josef

Changes in the permeability of isolated frog skin caused by  
Septonex and chemicals influencing its bactericidal action.  
Scr. med. fac. med. Brunensis 36 no.7:323-328 '63.

1. Katedra hyg. epid. lekarske fakulty University J.E.  
Purkyne v Brne (Vedouci katedry: prof. MUDr. et RUDr. K.  
Halacka); Katedra lekarske fyziky lek. fakulty University  
J.E.Purkyne v Brne (Vedouci katedry: sost. doc. MUDr.J.  
Stanek, CSc.) a Katedra farmakologie lekarske fakulty Uni-  
versity J.E.Purkyne v Brne (Vedouci katedry: MUDr. J.Sajner,  
CSc.).

\*

KOCIAN, L.

"Investigation of pectins." p. 196. "Aid of chemists in rolling mills." p. 197. "Achievement of improvers in the paper mills in Hamry." p. 197. "It is necessary to save imported raw materials." p. 197. "We use Soviet methods." p. 197. (Chemie, Vol. 7, no. 10, Oct. 1951 Praha.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.  
Uncl.



Z/039/61/022/001/002/006  
E192/E382

**AUTHORS:** Kocian, Pavel and Kracik, Jiri, Docent  
**TITLE:** The Conditions of Appearance of a Striated Low-pressure Discharge  
**PERIODICAL:** Slaboproudý obsor, 1961, Vol. 22, No. 1, pp. 16 - 19

**TEXT:** It is known that a striated discharge can be obtained if the gas in the discharge tube contains some heavy negative ions. The problem of producing such discharges was investigated experimentally. The discharges were studied in argon, mixed with a compound P-85 which consisted of acetone, amylacetate and nitrocellulose (this material is used as the binder for activating materials on tungsten electrodes). The results of the experiments are shown in six graphs and seven photographs. The conditions of the appearance of a striated discharge were investigated as a function of voltage, diameter of the discharge tube and the total pressure (argon + P-85) and partial pressure of P-85. A typical set of experimental graphs is shown in Fig. 1.  
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E192/E382

The Conditions of Appearance of a Striated Low-pressure Discharge

These give the discharge current as a function of the total pressure (argon + P-85) at which the striations appear. The measurements were carried out with AC and DC and it was found that in both cases the discharge was of the same type. The discharges represented in Fig. 1 were carried out at various argon pressures (ranging from 0 to 8.1 tor). From the graphs it is concluded that as the pressure of P-85 is increased, i.e. the number of heavy particles is increased, the striations are easier to obtain. On the other hand, when the partial pressure of argon is increased, the ability of the discharge to produce striations is reduced. Thus, at 7 tor pressure (2 tor of argon) the striations appear at 3.3 mA; on the other hand, for the same pressure of P-85 but with argon pressure of 4.1 tor, the striations are obtained at 8.9 mA. The striations can be in the form of a regular or irregular helix or of separate striae. The  
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Z/039/61/022/001/002/006  
E192/E382

**The Conditions of Appearance of a Striated Low-pressure Discharge**

voltage across the electrodes of the discharge tube as a function of the overall pressure was also investigated for various argon pressures. It was found that, in general, the appearance of the striations could be effected at lower voltages as the partial pressure of P-85 was increased. By measuring the dependence of the discharge current on the diameter of the discharge tube it was found that by increasing the diameter of the tube the striations would be produced more easily than in small-diameter tubes. Rotating striations were also observed over a certain narrow range of currents and pressures but this phenomenon was not investigated in detail. There are 13 figures and 11 references: 5 Czech and 6 non-Czech.

ASSOCIATION: Fyzikální ústav elektrotechnické fakulty,  
Poděbrady (Physics Institute of the Electro-  
technical Division, Poděbrady)

Card 3/4

L 34768-66

SOURCE CODE: CZ/0037/65/000/004/0328/0333

ACC NR: AP6026278

AUTHOR: Kocian, Pavel

ORG: Department of Physics, Electrical Engineering Faculty, CVUT, Prague (Katedra fyziky elektrotechnické fakulty CVUT)

TITLE: Striated positive column of low pressure glow discharge in electronegative gases

SOURCE: Ceskoslovensky casopis pro fysiku, no. 4, 1965, 328-333

TOPIC TAGS: glow discharge, positive column, gas property, halide, negative ion, positive ion, electronic circuit

ABSTRACT: The paper gives a survey of the experimental knowledge of a striated positive column in electronegative gases, particularly in certain halides. It points out the different properties of a positive column in such gases compared with those of a column in atomic gases, especially the shape of the striations and their mutual arrangement. It also points out that the changed properties are due to the presence of negative ions and their three dimensional recombination with positive ions. The dependence of the distance between striations on the discharge current, the pressure and the parameters of the electric circuit is investigated experimentally for various gases. The invalidity of Goldstein's law for electronegative gases is proved. Orig. art. has: 4 figures. [Based on author's Eng. abstr.] [JPRS: 32,945]

SUB CODE: 07, 09 / SUBM DATE: 29Dec63 / ORIG REF: 005 / OTH REF: 019

Card 1/14R

1. 1721-44 ENT(1)/EPA(s)-2/EPA(w)-2/ENA(n)-2  
ACCESSION NR: AP5024075

CZ/0039/64/025/012/0698/0706

AUTHOR: Koonen, Pavel 44.56

TITLE: Experimental investigation of low-pressure discharge in gases of the 5th, 6th and 7th groups

SOURCE: Slesobproudy obsor, v. 25, no. 12, 1964, 698-706

TOPIC TAGS: gas discharge, gas type, low pressure research, gas property

ABSTRACT: [author's Russian and English summaries, modified]: Low-pressure discharge in electronegative gases and the volt-ampere response in various gases at different temperatures and tube diameters were investigated experimentally. The obtained responses are compared with those in inert gases, and the differences are explained. Three types of visually discernible low-pressure discharges are described. The positive column is investigated experimentally, and the axial field component is measured in various gases at different pressures and tube diameters. The measurements were made at various points on the circular section of the tube, at the axis as well as near the walls. The obtained values are plotted in a graph as a function of the discharge current. The relations are discussed and compared with similar relations for inert gases. Orig. art. has: 18 figures, 27 formulas and 15 graphs.  
Card 1/2

L 1721-66

ACCESSION NR: AP5021075

ASSOCIATION: Katedra fyziky elektrotechnické fakulty CVUT, Prague (Physics  
Department of the Electrical Engineering Division at the Czech Institute of  
Technology CVUT)

SUBMITTED: 19Feb64

ENCL: 00

SUB CODE: EC

NR REF SOV: 000

OTHER: 009

JPRS

Card 2/2 DP

ACCESSION NR: AP4015900

1/0039/64/025/001/0044/0047

AUTHOR: Kocian, Pavel (Candidate of sciences)

TITLE: The influence of an external magnetic field on the properties of striated discharge

SOURCE: Slaboproudy obser, v. 25, no. 1, 1964, 44-47

TOPIC TAGS: magnetic field, striated discharge, discharge, homogenous magnetic field, electrons

ABSTRACT: The purpose of this paper is to calculate the dependence of the frequency of the rotation of the striated discharge and its shape (its ascending pitch) on the external homogenous axial magnetic field, and to determine the possibility of influencing this discharge by the above magnetic field. As a starting point the following equations are used: equations for the disturbance of electron concentrations and positive and negative ions in equilibrium, and an equation for the scalar potential disturbance. By solving this system of equations the author obtains the radial distribution of particles, and by discussing the third term in the resulting equation he obtains two relations

Card 1/2

ACCTIAN, P. 1

Experimental investigation of the pressure discharge of gases of the 5th, 6th, and 7th groups. Bibliography abstracts. 1964.

1. Chair of Hydraulics of the Faculty of Mechanical Engineering of the Czech Higher School of Technology, Prague. Submitted February 19, 1964.

2/055/62/012/009/004/005

AUTHORS: Kracik, J., Kocian, P.

TITLE: The influence of a magnetic field on the rotation and shape of threads in a thread discharge

PERIODICAL: Czechoslovak Journal of Physics, v. 12, no. 9, 1962, 719-720

TEXT: It is known, for example from [1] and [2], that if there is a high-molecular substance in the discharge space of a glow discharge, a thread is produced in the positive column. In the general case the thread is irregular in shape and performs irregular motion. Only in a narrow current and pressure interval can slow uniform rotation of a more or less regular, helical-shaped thread be attained, this being made possible by the intrinsic magnetic field of the discharge. Since the intrinsic magnetic field is small, it follows that the thread, its motion and shape can be influenced by even quite a small external magnetic field. This has been experimentally proved. A substance, known in engineering as P-85 and used for applying an active film to

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2/055/62/012/009/004/005

The influence of a magnetic field on...

the surface of the electrodes of fluorescent lamps, is located in a cylindrical discharge tube 50 mm in diameter. It is actually a mixture of methyl alcohol acetone, amyl acetate and low nitrocellulose. The pressure of this atmosphere during the experiments was of the order of a tor and the discharge current of the order of 10 mA. An external axial homogeneous magnetic field, regulable in limits of 0-10<sup>3</sup> Oe, with a variable polarity, was applied to the discharge space. An analogous problem is solved in paper [3]. Here a study is made of the instability of a discharge in an external magnetic field while the charge, the plasma of which is formed only by electrons and positive ions, is attenuated and rotated by this magnetic field. In our case, however, the conditions are fundamentally different due to the negative ions. The dependence of the frequency of rotation on the magnetic field strength was found. It was proved that the frequency of rotation increased with increasing magnetizing current (Fig. 1). This dependence occurred even when  $\omega = 0$  (standing thread). If the thread was in the axis of the tube, it was deflected and rotated when a certain external

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1/055/62/012/009/004/005

The influence of a magnetic field on...

magnetic field was applied. The dependence of the shape of a regular thread, i.e. a helix, and particularly its pitch, on the intensity of the applied magnetic field was also investigated. Measurements showed that the pitch of the helix decreases with increasing magnetic field (Fig. 2). References: [1] Kracik J., Kucian P.: Czech. J. Phys. B 10 (1960), 772; [2] Kucian P., Kracik J.: Slaboproudý obzor 22 (1961), 16; [3] Kadomtsev B. E., Nedospalov A. V.: Plasma Physics I (1960), 230.

[Abstractor's note: complete article]

ASSOCIATION: Electrotechnical Faculty, Physical Institute,  
Poděbrady

SUBMITTED: January 10, 1962

Card 3/4

2/055/62/012/009/004/005

The influence of a magnetic field on...

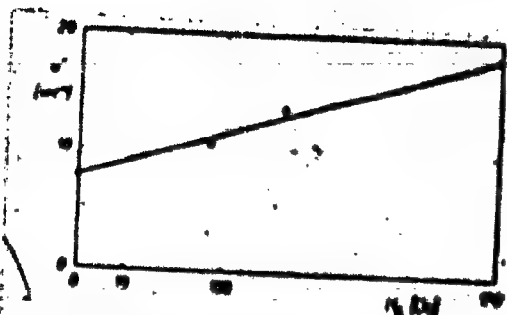


Fig. 1. Dependence of rotation frequency of thread on intensity of external axial homogeneous magnetic field. (Scale on horizontal axis is quadratic.)



Fig. 2. Dependence of height of ball of thread-pitch on intensity of external axial homogeneous magnetic field. (Scale on horizontal axis is quadratic.)

Card 4/4

KOCIAN V.

Proposal of a new method for calculating some physical properties of rayon staple.  
p.55.  
(Textile, Vol, 12, No. 2, Feb. 1957, Praha, Czechoslovakia)

S0: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

KOCHAV

Physicochemical and mechanical properties of photoconductive polymers materials. V. K. Kozlov and R. Kuznetsov (Ost. theor. a. appl. mech., ChAV, Prague). Chem. papers, 36:1-2 (1987), 1-10. The photoconductivity was studied of the copolymer of optical sensitivity ( $K$ ) of poly(methyl methacrylate) (I), and poly(benzyl methacrylate) (II) at different strains ( $\epsilon$ ), and simultaneously the deformations ( $\delta$ ) were used, all expts. being carried out at 22°. For I (II) the value of  $K$  is plotted as a function of  $\ln(t/t_0)$  for  $\epsilon = 0.7$  (0.333) kg./sq. cm. (33.3-100.7). The relative change of  $K$  in % ( $\rho$ ) may be expressed as  $\rho = h(\ln t) - g(h$  and  $g$  being functions of  $\epsilon$ ), the values of  $h$  and  $g$  being calculated for I and II in the studied range of  $\epsilon$ . The quality ( $D$ ) of I (II) is defined as  $D_{rel} = (K_0/K_\epsilon) \times 10^{-4}$  cm., where  $K_0$  is  $\epsilon/\rho$ ; the change of  $D$  with time is plotted for various  $\epsilon$ , the values of  $D$  for I (II) being found 0.1 (3.0-1.0). X-ray diagrams of II in the charged and uncharged states showed amorphous structures.

J. Kozlov

4

4620 (g)

222 (H3)

78

KOCLAN, V.

Photoelastic method for determination of the stress in fillet welds. Strojirenstvi 11 no.12:921-925 D '61.

1. Ceskoslovenska akademie ved, Ustav teoreticke a aplikovane mechaniky, Praha.

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DA Not in DLC

SO: Monthly List of East European Accessions (REAL) IC, Vol. 6, no. 10, October 1957. Uncl.

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Time schedules and development of the content of topics in zoology in the 7th grade. p. 147

Vol. 5, no. 2, Feb. 1955  
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Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956



Kocian, V.

Two Soviet textbooks translated into Czech. P. 253  
SOVETSKA VEDA: BIOLOGIE. (Ceskoslovenska akademie ved. Biologicka  
sekce) Praha.  
Vol. 6, no. 3, 1956

Source: REAL - LC Vol. 5. No. 10 Oct. 1956

KOČIAN, Vojtech

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KOCLANOVA, Marie, ins.

Keeping technical standards of seed and seedlings makes possible the increase of yield per hectare. Normalizace 11 no.9:273-274 8 '63.

1. Ustredni kontrolni a skusebni ustav zemelsky, Praha.

BRADAC, O.; KOCIANOVA, J.

Staphylococcal dermatitis. Cesk. pediat. 12 no.3:185-192  
Mar 57.

1. Detské oddelení KUM v Liberci. Prednosta prim. Dr. Otto Bradac.  
(MICROCOCCAL INFECTIONS, in inf. & child  
dermatitis (Cs))  
(DERMATITIS, in inf. & child  
micrococcal (Cs))

TASOVAC, Sinisa; TASOVAC, Borivoje; KOCIC, Antislava

Acute mastitis in wet nurses; antibiotic therapy. Srpski  
arh. celok. lek. 85 no.1:1-16 Jan 57.

1. Ginekološko-akuserska klinika Medicinskog fakulteta u Beogradu  
Upravnik: prof. dr. Sinisa Tasovac.

(MASTITIS, ther.

antibiotics in acute mastitis in wet nurses (Ser))

(ANTIBIOTICS, ther. use

acute mastitis in wet nurses (Ser))

TASOVAC, Sinisa; TASOVAC, Borivoje; KOCIC, Anđelija

Acute mastitis in vet nurses; clinical aspects. Srpski arh.  
celok. lek. 85 no.1:70-74 Jan 57.

1. Ginekološko-akuserska klinika Medicinskog fakulteta u Beogradu  
Upravnik: prof. dr. Sinisa Tasovac.  
(MASTITIS,  
in vet nurses, clin. aspects (Ser))

MARSENIC, B., PETKOVIC, M., KOCIC, D., VUKLOJIC, D.

Pulmonary tuberculosis and peptic ulcer of the stomach and duodenum. Tuberkuloma 15 no.3:370-375 JI-D'63

1. Opsta bolnica, Mis; Grudno od. (sef: prim.dr.B.Marsenic) i  
Interno od. (sef: prim. dr. M.Petkovic).

5



KOCIG. V.

Some characteristics of the battery of a sound recorder in using the OR-8 apparatus.  
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1. Pharmakologisches Institut der Medizinischen Fakultät in Sarajevp.  
(ASTHMA exper) (CYCLOPARAFFINS pharmacol)

VALENTOVA, M.; KOCICH, J.

Examination of changes of electrode potentials of Mn-~~3~~ steel  
subject to elastic deformation. Sbor VST Kosice no.1:69-75 '63.

1. Department of Chemistry, Higher School of Technology, Kosice  
(for Valentova). 2. Department of Technology, Kosice (for Kocich).  
Submitted April 5, 1962.

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Source: Geological Survey, Vol. 10, No. 2 (1971), February 1971 (16)

11. "Notes on the General Geology of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.
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13. "Geological Survey of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.
14. "Geological Survey of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.
15. "Geological Survey of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.
16. "Geological Survey of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.
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18. "Geological Survey of the State of Georgia," Geological Survey, Vol. 10, No. 2 (1971), February 1971, p. 1-10.

1887

— 2 —

ARONSKI, Antoni; MASLANKA, Pawel; KOCIRBA, Ryssard

Considerations regarding endovenous anesthesia. Polski przegl.  
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1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof.  
dr W. Bross.

(ANESTHESIA INTRAVENOUS statist)

KOCIEZEWSKA-MUSIAL, Genowefa

Analysis of the gravel of the Dunajec River from Rosnow Village to its mouth. Biuletyn Geolog 1 no.1:126-137 '61.

1. Chair of Geology and Economics of Deposits, University, Warsaw.

KOCIECKI, J.

Improving the quality of paper. p. 44.

(PRZEGLAD PAPIERNICZY. Vol. 12, no. 2, Feb. 1956, Lodz, Poland)

SO: Monthly List of East European Accessions (KEAL) LC. Vol. 6, No. 12, Dec. 1957.

Uncl.

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"Problem of tracing papers." p. 363. (PRZEGLAD PAPIERNICZY Vol. 10, No. 12, Dec. 1954, Lodz, Poland)

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The first Caracal lynx in a Polish zoo. Przegl zool 8 no.4:  
362-365 '64.

1. Zoological Garden, Poznan.

KOCIBCKI, S.

Standards for planting seeds in nurseries and afforestation areas.  
p.26

LAS POLSKI. (Ministerstwo Leśnictwa oraz Stowarzyszenie Naukowo-Techniczne  
Inżynierów i Techników Leśnictwa i Drzewnictwa) Warszawa, Poland  
Vol. 29, no.3, Mar.1955

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Uncl.

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Germination and cold-soaking of pine seeds before planting p. 112

SYLWAN. (Wydział Nauk Rolniczych i Lasnych Polskiej Akademii Nauk i Polskie Towarzystwo Leśne) Warszawa, Poland (Journal on forestry issued by the Section of Agricultural and Forestry Sciences, Polish Academy of Sciences; and The Polish Society of Forestry; with English and Russian summaries. Includes supplements; Biuletyn Instytutu Badawczego Leśnictwa, bulletin of the Forest Research Institute; Biuletyn Instytutu Technologii Drewna, bulletin of the Institute of Wood Technology; Przegląd Dokumentacyjny Drzewnictwa, documentation of the Institute of Wood Technology; and Przegląd Dokumentacyjny Leśnictwa, documentation of the Forest Research Institute. Monthly)  
Vol. 101, no. 3, Mar. 1957

Monthly List of East European Accessions Index (KEAI), LC, Vol. 8, No. 6, June 1959  
Uncl.

KOCIECKI, S.

Comparative study of two experimental plantations of Polish larch in Czechoslovakia and in Poland. p. 39.

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Encl.

KOCIŁSKI, Stefan

Stands of pine wood for sexual purposes. Sylwan 104 no.1:  
75-76 Ja '60.

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"Bastardisation in the genus Larix" by Rudolf Diapelsier.  
Reviewed by Stefan Kociecki. Sylvan 104 no.5:71-72 My  
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In connection with the school reform. Problemy 19 no. 1: 58-59  
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1. Ze Stacji Sanitarnej-Epidemiologicznej m. Wrocławia.

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Head for core drilling of deep openings. Mechanik 34 no.9:474 '61.

1. Huta Stalowa Wola, Stalowa Wola.

KOCIELSKA, W.

35

POLAND

KULENZA, Aleksandra; Department of Epidemiology (Zaklad Epidemiologii), PZH (Panstwowy Zaklad Higieny -- State Institute of Hygiene), Directors: Prof. Dr J. KOSTRZYNSKI, Head of the Institute: Prof. Dr T. HIZENIYCKI; with the collaboration of J. GOLBA, T. JOPKIEWICZ, M. KLOPZAK, W. KOCIELSKA, M. KOPEC, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, W. MALISZKO, K. MEYMAN, A. OLES, S. PERIA, K. POPKIEWICZ, T. RODKIEWICZ, J. ROZWADOWNA, W. SOCLISKA, S. SZCZESNIAK, P. ZOIENIARZOWA all of the Wojewodstwo Health and Epidemiological Stations (Wojewodzkie Stacje Sanitarne-Epidemiologiczne); H. BCBROWSKI, A. GECOW, J. GILBER, M. GRUSZCZYNSKA, H. JASTKESKA, K. JUZWA, J. KUROZKIN, Z. KESZKA, R. STANCZYK, J. STOKATOWICZOWA, Z. SZCZESKA, K. SZCZYGIELSKI, S. SZYMILAN, K. SWICOWA, J. WAJSZCZUK, R. WARCZONA all of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Poliomielitis) of the Wojewodstwo Health and Epidemiological Stations; J. ADAMSKI (Poznan), M. DOBROWOLSKA (Warsaw), J. BOCHINSKA (Lodz), M. KOTNIO (Krakow); M. DOBROWOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH,

1/2

POLAND

Director: Prof Dr P. PRZYBYCKI, technical aid: A. RATINSKA

"Epidemic Situation of Poliomyelitis in Poland in 1961"

Warsaw, Pracowad Epidemiologiczne, Vol XVI, No 4, 1962,  
pp 369-375.

Abstract/Author: English summary modified. The profound influence on the epidemiology, etiology and clinical picture of poliomyelitis of the introduction of mass immunization with attenuated polio vaccines in 1959 is discussed. Observations on the influence and effect of immunizations with such vaccines on the epidemic situation of poliomyelitis in Poland are reported. 4 tables, 2 diagrams; 5 Polish references.

12/2

SOCHIELSKA, W.

30

**POLAND**

KULEBSA, Aleksandra of the Department of Epidemiology (Zaklad Epidemiologiczny) of the PZM (Panstwowy Zaklad Higieny -- State Institute of Hygiene). Director: Prof. Dr F. PRZESMYCKI, Head of the Department: J. KOSCIUSKO, J. GILBA, T. JOPKIEWICZ, M. KACPRZAK, W. KOSCIUSKO, K. LIPINSKA, R. LUTYNSKI, J. MAKAREWICZ, S. PEKA, T. ROKITNICKI, W. SOCHIELSKA, S. SZCZEPNIAK, D. ZOLNIERKOVA all of the WSEK (Wojewodzkie Stacje Sanitarne-Epidemiologiczne -- Wojewodztwo Health and Epidemiology Stations); M. BOGOMSKI, A. OKOC, J. OELBER, E. JUCYA, J. KUROSZKA, J. SYONATOWICZOWA, Z. SZCIELSKA, E. SZCZYGLIJSKI, K. SWICOWA, R. WARTCHAK of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Poliomyelitis) of the WSEK; H. DOBRZYNSKA of the Department of Virology (Zaklad Wirusologii) of PZM, Director: Prof. Dr F. PRZESMYCKI; J. ADAMSKI (Poznan), H. DOBRZYNSKA (Warsaw), J. BOGUSZKA (Lodz), M. KOTKO (Kielce), M. MAKOWER (Wroclaw), F.Z. TAYTSCH (Warsaw) of the PZM; technical aid of A. BAJINSKA of the PZM.

"Safety of Immunization with the Attenuated Polio Virus

1/2

POLAND

Strains Type 1 Chat and Type 3 V Fox"

Warsaw, Przegląd Epidemiologiczny, Vol XVI, No 4, 62, pp 377-380.

**Abstract:** [Author's English summary modified] An epidemiological, clinical and virological analysis of poliomyelitis in Poland was made within 6 weeks after completion of oral immunization with polio virus type 1 Chat and type 3 V Fox. Investigations made in 1959 and 1960 show the complete safety of Koprowski's attenuated oral vaccine type 1 Chat. The strain 3 V Fox is indicated as a pathogenic one and its uncertain safety found by investigations in 1960 has been confirmed. 8 tables; 2 diagrams; 9 references, 2 Polish the rest Western.

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**AUTHORS:** Kociers, Stanisław, and Zajonz, Hubert

**TITLE:** Improving the hardness of granulated ammonium nitrate

**PERIODICAL:** Przemysł chemiczny, v. 40, no. 8, 1961, 439 - 443

**TEXT:** A description of the investigation carried out at the Zakłady azotowe, Wydział Soli (Nitrogen Works, Salt Department), to improve the keeping properties of granulated  $\text{NH}_4\text{NO}_3$  which tends to disintegrate into moist crystals, dust and form lumps. A short description of the granulating process is given. Brittleness of the granulate was measured by ball milling 200 g portions (separated from fines  $< 0.5$  mm) with 20 g of 4 mm steel shot, in a glass tube 1000 mm long x 70 mm diameter, at the rate of 21 turns/min. The fines ( $< 0.5$  mm) formed after 15 minutes were mechanically sieved off over a period of 2 mins. and their percentage weight was taken as a measure of brittleness of the material. It was found that

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hard granules did not suffer from the above-mentioned disintegration during storage, whilst brittle samples crumbled at a rate increasing with brittleness. Fischer's method was used to determine the total water content of the granulate since the weight loss on heating at 105°C for 2 hours yielded values which were ~0.1 % too low. Relationships between brittleness and the total moisture content of the granules and the effect of lime and magnesia additions (as nitrates) were examined, finding that brittleness increased sharply with increasing water content. The effect of dolomite additions was relative slight. To determine the absorption of atmospheric moisture, 500 l of air of 0-80 % relative humidity were passed through 200 g samples of 1.25 - 2.5 mm granules, cooling the latter from 300 to 180°C. It was confirmed that brittleness can be induced by increasing the moisture content of the granulate. From the results obtained, a saltpeter drying plant was constructed on an industrial scale. The possibility of increasing the hardness of granulated  $\text{NH}_4\text{NO}_3$  by adding ~1% of water-absorbing mine-

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ral was investigated.  $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$  from Cementownia Bolko (Bolko Cement Works), siliceous earth from the region of Piotrowice finely crushed, dehydrated  $\text{CaCO}_3$  and crushed tufa from Filipowice were tried. The experiments were conducted on an industrial scale, mixing powders with liquid saltpeter, in a 2-stage mixer prior to granulating. Cooled granules were coated with various mineral powders and stored for observation. On measuring the brittleness, it was found that mineral additions had, in general, increased granule hardness and inhibited lump formation. Gypsum semihydrate and siliceous earth were best in this respect, while the addition of  $\text{CaCO}_3$  resulted in a very weak granulate. Work on the mechanism of these phenomena and on determining physico-chemical properties of the  $\text{H}_2\text{O}$  granulated  $\text{NH}_4\text{NO}_3$  system is being continued. Apart from the authors, Bolesław Skowroński, Zbigniew Ledziński, Henryk Maciejec and Edward Jankowiak participated in this investigation. There are 11 figures, 8 tables and 5 references: 3 Soviet-bloc and

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2 non-Soviet-bloc. The reference to the English-language publication reads as follows: Canadian Patent 54257, 1947.

ASSOCIATION: Zakłady azotowe, Kędzierzyn (Nitrogen Works, Kędzierzyn)

SUBMITTED: March 1, 1961

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KOCIERZ, Stanislaw; MATYSIAK, Jerzy

Mutual reaction of nitroso-compound gases and solutions of ammonium nitrate under industrial conditions. Przem chem 41 no.10:565-569 0 '62.

1. Zakłady Azotowe, Kędzierzyn.

KOCIJAN, Z., dr.

New endeavors of the International Chamber of Commerce to solve the problem of clean bills of lading and letters of indemnity. Medun, transp 10 no.1:59-61 Ja '64.